

CLAIMS:

1. A swivel mount for a spray head comprising:
a holder including an opening concentrically disposed about a longitudinal holder axis;
5 a first retainer including an axially extending tubular portion and a retaining member extending outwardly from the tubular portion, the tubular portion being received within the opening of the holder;
a body including an outer surface having a semi-spherical portion and an opening concentrically receiving the tubular portion of the first retainer, the body
10 defining a longitudinal body axis;
a seal positioned in sealing engagement with the semi-spherical portion of the body; and
wherein the body is supported for pivoting movement relative to the holder such that the longitudinal body axis may be angularly offset from the
15 longitudinal holder axis.
2. The swivel mount of claim 1, further comprising a second retainer supported by the tubular portion of the first retainer, wherein axial movement of the body relative to the holder is restrained by the first retainer and the second retainer.
3. The swivel mount of claim 1, further comprising a nipple including a
20 socket concentrically receiving the holder and a passageway in fluid communication with the tubular portion of the first retainer.
4. The swivel mount of claim 3, further comprising an annular seal positioned intermediate the nipple and the holder, wherein the nipple includes an annular seat configured to support the seal.
- 25 5. The swivel mount of claim 3, further comprising a bonnet concentrically receiving and coupled to the socket of the nipple, the bonnet including a retaining ring and the holder including an annular lip, wherein the annular lip of the holder is coupled intermediate the socket of the nipple and the retaining ring of the bonnet.
- 30 6. The swivel mount of claim 5, further comprising:
a sleeve concentrically receiving and coupled to the bonnet, the sleeve including a generally cylindrical body, a plurality of supports extending upwardly from the body, and a plurality of locking tabs extending outwardly from the body; and

a shroud including an upper portion supported by the plurality of supports of the sleeve and a lower portion including an annular lip operably coupled to the plurality of locking tabs of the sleeve.

5 7. The swivel mount of claim 6, further comprising an annular seal positioned intermediate the bonnet and the sleeve, wherein the bonnet includes an annular seat and a plurality of locating tabs extending upwardly adjacent to the seat, the seal being supported by the seat and positioned by the locating tabs.

10 8. The swivel mount of claim 6, further comprising a cover including an outer shield portion concentrically receiving the shroud and an inner support portion coupled to the body for movement relative to the shroud.

15 9. The swivel mount of claim 8, wherein the outer surface of the body includes a plurality of circumferentially spaced lips and the inner support portion of the cover includes a plurality of locking tabs positioned inwardly from the outer shield portion, the plurality of locking tabs being operably coupled with the plurality of lips of the body to axially secure the cover to the body.

20 10. The swivel mount of claim 9, wherein the outer surface of the body includes a plurality of circumferentially spaced channels and the inner support portion of the cover includes a plurality of locating tabs positioned inwardly from the outer shield portion and disposed intermediate the locking tabs, the locating tabs being operably coupled with the channels of the body to rotatably secure the cover to the body.

25 11. The swivel mount of claim 3, further comprising a flow regulator received within the passageway of the nipple and a retainer operably coupled with the nipple to retain the flow regulator within the nipple.

 12. The swivel mount of claim 3, further comprising a hexagonal opening concentrically received within the passageway of the nipple and configured to receive a tool.

30 13. The swivel mount of claim 1, wherein the body is configured to receive a fluidic cartridge assembly in fluid communication with the tubular portion of the first retainer.

 14. A fluid delivery assembly configured to be at least partially recessed within a mounting surface of a wall, the fluid delivery assembly comprising:
 a fluid spray head;

a body receiving and coupled to the fluid spray head, the body including a downwardly facing semi-spherical surface and an opening concentrically disposed about a longitudinal axis;

5 a lower retainer including a disc having an upwardly facing semi-spherical surface positioned in spaced relation to the downwardly facing semi-spherical surface of the body;

a generally bowl-shaped passageway defined intermediate the semi-spherical surface of the body and the semi-spherical surface of the lower retainer; and

10 a holder received within the passageway, the body and the lower retainer being pivotable relative to the holder about axes orthogonal to the longitudinal axis, thereby orienting the fluid spray head in a desired position.

15 15. The fluid delivery assembly of claim 14, wherein the body is rotatable about the longitudinal axis.

16. The fluid delivery assembly of claim 14, further comprising an annular seal received intermediate the body and the holder.

17. The fluid delivery assembly of claim 14, wherein the lower retainer includes an axially extending tubular portion extending upwardly from the disc and received within the opening of the body.

20 18. The fluid delivery assembly of claim 14, further comprising an upper retainer coupled to the lower retainer such that the body and the holder are positioned axially intermediate the lower retainer and the upper retainer.

25 19. The fluid delivery assembly of claim 14, further comprising a nipple including a socket concentrically receiving the holder and a passageway in fluid communication with the fluid spray head through the opening of the body.

20. The fluid delivery assembly of claim 19, further comprising a bonnet concentrically receiving and coupled to the socket of the nipple, the bonnet including a retaining ring and the holder including an annular lip, wherein the annular lip of the holder is secured intermediate the socket of the nipple and the retaining ring of the bonnet.

30 21. The fluid delivery assembly of claim 20, further comprising:
a sleeve coupled to the bonnet and including an annular body supporting a downwardly facing seat; and

an annular seal positioned axially intermediate the seat and a mounting surface of a wall such that at least a portion of the body is recessed within the wall.

22. The fluid delivery assembly of claim 20, further comprising:

5 a sleeve concentrically receiving and coupled to the bonnet, the sleeve including an annular body, a plurality of supports extending upwardly from the body, and a plurality of locking tabs extending outwardly from the body; and

a shroud including an upper portion supported by the plurality of supports of the sleeve and a lower portion including an annular lip operably coupled to the plurality of locking tabs of the sleeve.

10 23. The fluid delivery assembly of claim 22, further comprising a cover including an outer shield portion concentrically receiving the shroud and an inner support portion coupled to the body for movement relative to the shroud.

24. A body spray assembly including:

15 a holder including an upper semi-spherical surface, a lower semi-spherical surface, and an opening concentrically disposed about a longitudinal holder axis;

20 a first retainer including an axially extending tubular portion and a disc extending outwardly from the tubular portion, the tubular portion being received within the opening of the holder and the disc including an upper semi-spherical surface conforming to the shape of the lower semi-spherical surface of the holder;

25 a body including a downwardly facing semi-spherical surface conforming to the shape of the upper semi-spherical surface of the holder and an opening concentrically receiving the tubular portion of the first retainer, the body defining a longitudinal body axis;

30 a fluid spray head received within and coupled to the body;

an annular seal in sealing engagement with the holder and the body;

a second retainer coupled to the tubular portion of the first retainer;

the holder and the body being positioned axially intermediate the disc of the first retainer and the second retainer, and the first retainer and the body are pivotable about the holder such that the longitudinal body axis may be angularly offset from the longitudinal holder axis;

a nipple including a socket concentrically receiving the holder and a passageway in fluid communication with the tubular portion of the first retainer;

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an annular seal positioned intermediate the nipple and the holder,
wherein the nipple includes an annular seat to support the seal;

5 a bonnet concentrically receiving and coupled to the socket of the
nipple, the bonnet including a retaining ring and the holder including an annular lip,
the annular lip of the holder being coupled intermediate the socket of the nipple and
the retaining ring of the bonnet;

a sleeve concentrically receiving and coupled to the bonnet, the sleeve
including a generally cylindrical body, a plurality of supports extending upwardly
from the body, and a plurality of locking tabs extending outwardly from the body;

10 a shroud including an upper portion supported by the plurality of
supports of the sleeve and a lower portion including an annular lip operably coupled
to the plurality of locking tabs of the sleeve;

an annular seal positioned intermediate the bonnet and the sleeve,
wherein the bonnet includes an annular seat and a plurality of locating tabs extending
15 upwardly adjacent to the seat, the seal being supported by the seat and positioned by
the locating tabs; and

a cover including an outer shield portion concentrically receiving the
shroud and an inner support portion coupled to the body for movement relative to the
shroud.

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